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# Installing and Administering Optivity Quick2Config 2.2

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# Preface

Welcome to *Installing and Administering Optivity Quick2Config 2.2*. The Optivity Quick2Config™ application offers a solution for one of the most problematic areas of networking—configuration management. By taking advantage of the unique capabilities of the Java programming language, Quick2Config provides comprehensive, platform-independent management capabilities that revolutionize the approach to configuring networks. The powerful structure of Quick2Config enables network administrators to adopt top-down, network-level configuration strategies, thus preventing the conflicts that can result from traditional bottom-up, device-level configuration.

This guide is part of the Optivity Quick2Config documentation set and describes how to install the Quick2Config server and the Quick2Config standalone client software. This guide also describes how to administer the Quick2Config server.

**Note:** The complete Optivity Quick2Config documentation set is located on the documentation CD that is included in the Optivity Quick2Config package.

## Before you begin

This guide is intended for the network administrator who is responsible for administering the Quick2Config server. Within the Quick2Config environment, this person is called the Quick2Config administrator.

Although you do not need prior knowledge of the Quick2Config software, you should have:

- Working knowledge of the Windows operating system or UNIX windowing systems and graphical user interfaces (GUIs).
- Familiarity with basic networking terminology, theories, and practices.

# Text conventions

This guide uses the following text conventions:

| | |
|---|---|
| angle brackets (< >) | Indicate that you choose the text to enter based on the description inside the brackets. Do not type the brackets when entering the command.<br>Example: `<InstallDir>:` |
| **`bold Courier text`** | Indicates command names and options and text that you need to enter.<br>Example: Use the **`dinfo`** command.<br>Example: Enter **`show ip {alerts\|routes}.`** |
| *italic text* | Indicates book titles and variables in command syntax descriptions.<br>Examples:<br>*Using the Optivity Quick2Config 2.2 Client Software* |
| **`bold text`** | Used for emphasis. |
| `plain Courier text` | Indicates command syntax and system output, for example, prompts and system messages.<br>Example: `Set Trap Monitor Filters` |
| separator ( > ) | Shows menu paths.<br>Example:<br>From the Windows Start menu, choose Programs > Quick2Config > Server. |

# Installation directory

This guide uses the variable <*InstallDir*> to indicate the directory that you specify as the destination directory for the Quick2Config server software.

Similarly, this guide uses the variable <*ClientInstallDir*> to indicate the directory that you specify as the destination directory for the Quick2Config standalone client software.

## Screen illustrations

The screen illustrations in this guide show the Java (Metal) “look and feel” option. You can change the “look and feel” of the Quick2Config window with the View > Preferences menu command. For more information, see *Using the Optivity Quick2Config 2.2 Client Software*.

## Related publications

For more information about using Quick2Config, refer to:

- *Using the Optivity Quick2Config 2.2 Client Software* (part number 207810-B)

  Intended for Quick2Config users, this guide describes how to use the Quick2Config client software to configure and maintain internetworks.

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# Chapter 1
# Preparing to install the Quick2Config software

This chapter describes important information about preparing your system prior to installing the Optivity Quick2Config 2.2 software. Nortel Networks strongly suggests that you read this entire chapter before starting the installation process.

Information in this chapter is organized as follows:


- "Quick2Config components" (next)
- "Preinstallation tasks" on page 20
- "Where to go from here" on page 25


## Quick2Config components

The Quick2Config application comprises the following components:

- Quick2Config server software, which is available for Microsoft Windows and UNIX platforms.
- Quick2Config client software, which is available in two versions:
  - The standalone version is a Java application. In UNIX environments, you can install the standalone client software on one machine and run on many client machines using X Windows. Alternatively, you can install the standalone client software on each client machine. In Windows environments, the standalone client software must be installed on each client machine.
  - The Web browser version is a Java applet that resides on the same machine as the Quick2Config server. The Web browser version of the client software is downloaded to the client machine whenever a Quick2Config user starts a client session.

# Preinstallation tasks

This section describes preinstallation tasks that you must complete before installing the Quick2Config software.

## Preinstallation checklist

Review the preinstallation checklist in Table 1 and perform all listed tasks before installing Optivity Quick2Config.

**Table 1** Preinstallation checklist

| Completed | Task |
|---|---|
| | Verify supported platforms (page 20).<br>Note that on AIX and HP/UX systems, you must install the Java Virtual Machine (JVM) before you install Quick2Config. |
| | Determine whether a Web server is running on the server system (page 23). |
| | Verify disk space requirements (page 23). |
| | Verify memory, display, and client system requirements (page 24). |

## Verifying supported platforms

The following tables list the platform requirements for running the Optivity Quick2Config 2.2 software:

- Table 2 is a matrix of the hardware and operating systems that are supported by the Optivity Quick2Config 2.2 server software.
- Table 3 is a matrix of the hardware, operating systems, window environments, and (optional) network management platforms that are supported by the Optivity Quick2Config 2.2 standalone client software.
- Table 4 is a matrix of the hardware, operating systems, and Web browsers that are supported by the Optivity Quick2Config 2.2 Web client software.

Verify that your system configuration matches one of the configurations listed in the following tables.

**Table 2** Supported platform configurations: Quick2Config server

| **Hardware platform** | **Operating system** |
|---|---|
| Intel Pentium, Pentium Pro, or Pentium II, 300MHz or faster | Windows 95, Windows 98, Windows 2000, or Windows NT 4.0 (Server or Workstation) and Service Pack 5 |
| RS/6000 & Power PC | AIX 4.2, 4.3, or 4.3.2<br>AIX Java Developer Kit (JDK) 1.1.8 or the Java Runtime Environment (JRE) |
| 700 series | HP-UX 10.2 or 11.00<br>HP-UX JDK 1.1.8 or the Java Runtime Environment (JRE) |
| 800 series | HP-UX 10.2 or 11.00<br>HP-UX JDK 1.1.8 (JRE) |
| Sun SPARCstation 20<br>UltraSPARCstation | Solaris 2.5.1, 2.6, or 2.7 |

**Table 3** Supported platform configurations: Quick2Config standalone client

| Hardware platform | Operating system | Window environment | Network management platform (optional) |
|---|---|---|---|
| Intel Pentium, Pentium Pro, or Pentium II | Windows 95<br>Windows 98<br>Windows NT 4.0<br>Windows 2000 | N/A | HP Openview 5.x or 6.x<br>Tivoli TME 10/NetView 5.0x |
| RS/6000 & Power PC | AIX 4.2, 4.3, or 4.3.2<br>AIX Java Developer Kit (JDK) 1.1.8 | AIX Motif or Common Desktop Environment (CDE) | NetView 4.1 or<br>Tivoli TME 10/Netview, 5.0x |
| 700 series | HP-UX 10.2 or 11.0<br>HP-UX JDK 1.1.8 | CDE | HP Openview 5.x or 6.x |
| 800 series | HP-UX 10.2 or 11.0<br>HP-UX JDK 1.1.8 | CDE | HP Openview 5.x or 6.x |
| Sun SPARCstations 10 or 20<br>UltraSPARCstations | Solaris 2.5.1, 2.6, or 2.7 | CDE | Solstice Domain Manager 2.3<br>or<br>HP Openview 5.x or 6.x<br>or<br>Tivoli TME 10/Netview, 5.0x |

**Table 4** Supported platform configurations: Quick2Config Web client

| Hardware platform | Operating system | Browser |
|---|---|---|
| Intel Pentium, Pentium Pro, or Pentium II | Windows 95<br>Windows 98<br>Windows 2000<br>Windows NT 4.0 and Service Pack 5 | Netscape 4.5 (or later)<br>Microsoft Internet Explorer 5.0 (or later) |
| Sun SPARCstation 10 or 20<br>UltraSPARCstation | Solaris 2.5.1, 2.6, or 2.7 | Netscape 4.5 (or later) |
| RS/6000 & Power PC | AIX 4.2, 4.3, or 4.3.2 | Netscape 4.5 (or later) |
| 700 series | HP-UX 10.2 or 11.0 | Netscape 4.5 (or later) |
| 800 series | HP-UX 10.2 or 11.0 | Netscape 4.5 (or later) |

## Determining the presence of a Web server

The Quick2Config server uses a Web server to communicate with Quick2Config client sessions. You can use the Web server that is integrated with Quick2Config or you can use a third-party Web server.

Determine whether the system onto which you are installing the Quick2Config server already has a Web server installed on it and, if it does, decide which Web server you will use.

**Note:** You can run the Web server integrated with Quick2Config and another Web server simultaneously as long as the Web servers are running on different ports. By default, the integrated Web server runs on port 80, which is typically the port that Web servers use. However, you can configure the integrated Web server to run on any unused port. See "Configuring the Web server" on page 66.

## Verifying disk space availability

Table 5 shows the disk space required to install the Quick2Config server and client software. Verify that your system has the required disk space.

**Note:** You will need additional disk space to store information about your network devices in the Quick2Config database.

**Table 5** Minimum disk space requirements

| Quick2Config software | AIX | HP-UX | Solaris | Windows 95<br>Windows 98<br>Windows NT |
|---|---|---|---|---|
| Server | 33 MB | 48 MB | 44 MB | 34 MB |
| Standalone client | 16 MB | 34 MB | 32 MB | 22 MB |

**Table 5** Minimum disk space requirements (continued)

| Quick2Config software | AIX | HP-UX | Solaris | Windows 95<br>Windows 98<br>Windows NT |
|---|---|---|---|---|
| Web client | 6 MB | 6 MB | 6 MB | 6 MB |
| Standalone client installation files<br>(These files are not required to run the Quick2Config application. For more information, see "Enabling remote client software setup" on page 72.) | 8 MB | 15 MB | 17 MB | 12 MB |

## Other system requirements

In addition to allocating enough disk space, you need to plan for other system requirements that affect the operation of the Quick2Config software. These requirements include system memory and display.

Table 6 shows the system memory and display requirements for the Quick2Config server and client software. Verify that your system meets these requirements.

**Table 6** Other system requirements

| Quick2Config software | AIX | HP-UX | Solaris | Windows 95<br>Windows 98<br>Windows NT |
|---|---|---|---|---|
| Server computers<br>• Memory<br>• Display | <br>256 MB<br>256 colors | <br>256 MB<br>256 colors | <br>256 MB<br>256 colors | <br>128 MB<br>256 colors |
| Client computers<br>• Memory<br>• Display | <br>128 MB<br>256 colors | <br>128 MB<br>256 colors | <br>128 MB<br>256 colors | <br>96 MB<br>256 colors |

# Where to go from here

If you are installing Quick2Config on a Windows system, see Chapter 2, “Installing Quick2Config on Windows systems,” on page 27.

If you are installing Quick2Config on a UNIX system, go to Chapter 3, “Installing Quick2Config on UNIX systems,” on page 37.

# Chapter 2
# Installing Quick2Config on Windows systems

This chapter describes how to install and uninstall the Optivity Quick2Config 2.2 server software on Windows systems.

Information in this chapter is organized as follows:


- "What the installation program does" (next)
- "Running the Quick2Config server installation program" on page 28
- "Verifying the server installation" on page 32
- "Removing the Quick2Config server software" on page 36


## What the installation program does

The installation program for Quick2Config installs the standalone and the Web versions of the client software, as well as the Quick2Config server. In addition, the installation program does the following:

- Creates an installation folder if one does not already exist. The default installation folder is C:\Program Files\Optivity\Quick2Config.
- Creates an uninstall program for the Quick2Config software.
- Creates a Quick2Config program group with icons for starting the Quick2Config server and starting the Quick2Config standalone client.

# Running the Quick2Config server installation program

The Quick2Config server installation program displays a series of dialog boxes that guide you through the installation. When you have completed a dialog box, click Next to continue with the installation. You can click a window's Previous button to move back through the dialog boxes, in order to review or change a setting. You can also click Exit at any time to exit the installation program without installing the Quick2Config software.

To install the Quick2Config server software on a Windows system:

1. Log on to a Windows system.
2. Close any Windows programs that are running.
3. Insert the Quick2Config CD into the CD-ROM drive.
4. From the Windows Start menu, choose Run.
5. In the Run window, type the following command:

   **<*drive*>:\Install\win32\q2c.exe**

   A window opens, informing you that the installation program is being prepared. After several seconds, the Optivity Quick2Config splash window opens. Next, the InstallAnywhere Wizard starts, and the Quick2Config installation program's Introduction dialog box opens (Figure 1).

**Figure 1** Optivity Quick2Config 2.2 Introduction dialog box

Optivity Quick2Config
Introduction
InstallAnywhere will guide you through the installation of your application. Use the "Next" button to proceed to the next screen. If you want to change something in a previous screen, click the "Previous" button. You may quit the installer at any time by clicking the "Exit" button.
InstallAnywhere
Exit
Previous
Next

**6** Click Next.

The Software License Agreement dialog box opens.

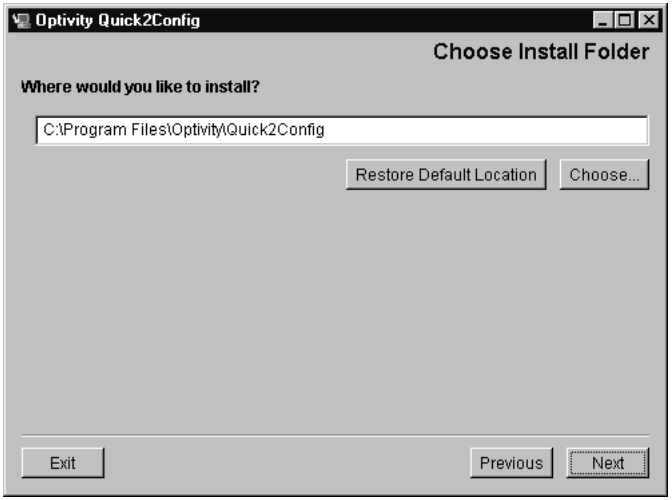
**7** Read the license agreement, and then do one of the following:

- If you agree with the terms of the license, click Yes, and then click Next. The Important Information window opens.
- If you do not agree with the terms, click No to exit the installation program.

**8** Read the information in the Important Information dialog box, and then click Next.

The Choose Install Folder dialog box opens (Figure 2).

**Figure 2** Choose Install Folder dialog box




**9** Specify a location for the Quick2Config files.

You can install the Quick2Config files in any directory on a local disk. The default directory is C:\Program Files\Optivity\Quick2Config.

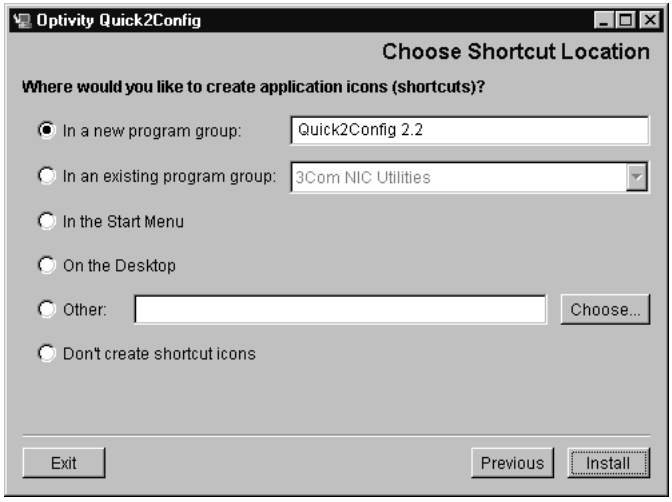
If you are using Quick2Config with a third-party Web server instead of the integrated Web server, you must create a link or an alias to the installation directory. (The details of how you link a file system directory to a Web directory depend on the Web server.) For example, you can install the Quick2Config files in the default directory C:\Program Files\Optivity\Quick2Config and then create a Web directory called Quick2Config and map that directory to C:\Program Files\Optivity\Quick2Config.

**Caution:** Do not install the Quick2Config software directly into the Web server's document root directory. If you do, the existing index.html page will be overwritten. The document root directory is the directory from which a Web server serves HTML files to Web browsers.

**10** Click Next.

The Choose Shortcut Location dialog box opens (Figure 3).

**Figure 3** Choose Shortcut Location dialog box




**11** Specify the folder where you want to copy the Quick2Config program icons.

By default, the installation program copies the program icons into a folder called Quick2Config 2.2.

**12** Click Install.

The installation program copies the files from the CD, and after a few moments, the Install Complete dialog box opens.

**13** Click Done.

This completes the installation process. Now you can verify the installation.

# Verifying the server installation

To verify that the Quick2Config server software has been installed correctly, do the following:

- Start the Quick2Config server (next).
- Start a Quick2Config client session (page 34).

## Starting the Quick2Config server

The way you start the Quick2Config server for the first time depends on whether a third-party Web server is running on the computer where you installed the Quick2Config server.

If a third-party Web server is not running, go to "Starting the server on a computer without a third-party Web server" (next).

If a third-party Web server is running, go to "Starting the server on a computer running a third-party Web server" on page 33.

### Starting the server on a computer without a third-party Web server

To start the Quick2Config server on a computer without a third-party Web server:

➨ From the Windows Start menu, choose Programs > Quick2Config 2.2 > Server.

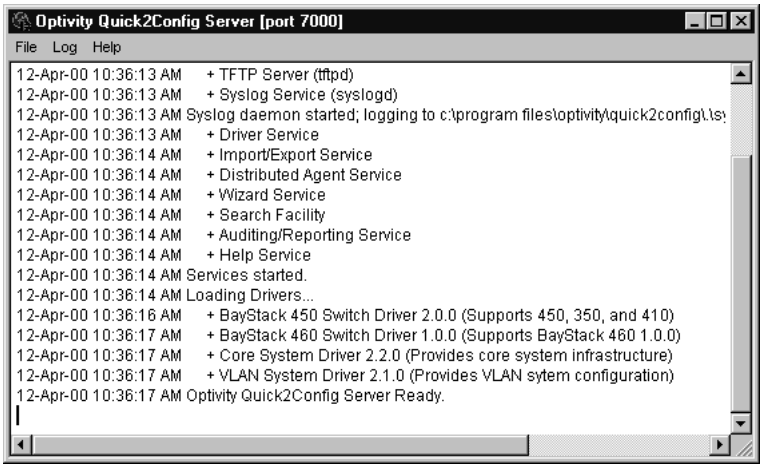
The server takes a few moments to perform its startup procedures, and then the Starting Server window opens. This window displays the progress of the Quick2Config server's startup process (Figure 4).

**Figure 4** Starting Server progress window

The Optivity Quick2Config Server window also opens. This window displays information about Quick2Config's services and drivers as they are loaded.

Figure 5 shows an example of the Optivity Quick2Config Server window. The message “Optivity Quick2Config Server -- Ready” indicates that the Quick2Config server has been installed correctly and that clients can connect to it.

**Figure 5** Optivity Quick2Config Server window—Server ready


Optivity Quick2Config Server [port 7000]
File Log Help
12-Apr-00 10:36:13 AM + TFTP Server (tftpd)
12-Apr-00 10:36:13 AM + Syslog Service (syslogd)
12-Apr-00 10:36:13 AM Syslog daemon started; logging to c:\program files\optivity\quick2config\\s
12-Apr-00 10:36:13 AM + Driver Service
12-Apr-00 10:36:14 AM + Import/Export Service
12-Apr-00 10:36:14 AM + Distributed Agent Service
12-Apr-00 10:36:14 AM + Wizard Service
12-Apr-00 10:36:14 AM + Search Facility
12-Apr-00 10:36:14 AM + Auditing/Reporting Service
12-Apr-00 10:36:14 AM + Help Service
12-Apr-00 10:36:14 AM Services started.
12-Apr-00 10:36:14 AM Loading Drivers...
12-Apr-00 10:36:16 AM + BayStack 450 Switch Driver 2.0.0 (Supports 450, 350, and 410)
12-Apr-00 10:36:17 AM + BayStack 460 Switch Driver 1.0.0 (Supports BayStack 460 1.0.0)
12-Apr-00 10:36:17 AM + Core System Driver 2.2.0 (Provides core system infrastructure)
12-Apr-00 10:36:17 AM + VLAN System Driver 2.1.0 (Provides VLAN sytem configuration)
12-Apr-00 10:36:17 AM Optivity Quick2Config Server Ready.

## Starting the server on a computer running a third-party Web server

How you start the Quick2Config server for the first time on a computer running a third-party Web server depends on whether you plan to use Quick2Config’s integrated Web server or the third-party Web server.

If you are using the Web server integrated into the Quick2Config server, you must change the port for the integrated Web server to avoid port conflicts. The integrated Web server is set up to run on port 80, which is the default port for Web servers.

To start the Quick2Config server and change the port for its Web server:

1. Open a command window and navigate to the directory containing the Quick2Config files.
2. At the command prompt, type the following command:

   **`server -httpport <portnumber>`**

where *portnumber* is a number other than the port on which the third-party Web server is running.

If you plan to use a third-party Web server with Quick2Config, you can start the Quick2Config server as follows:

➨ From the Windows Start menu, choose Programs > Quick2Config 2.2 > Server.

The Quick2Config server takes a few seconds to perform its startup procedures. The Starting Server window opens and displays the progress of the Quick2Config server's startup process. (See Figure 4 on page 32.)

The Optivity Quick2Config Server window also opens. (See Figure 5 on page 33.) This window displays information about Quick2Config's services and device drivers as they are loaded. The message "Optivity Quick2Config Server -- Ready" indicates that Quick2Config has been installed correctly.

Next, you must start a client session so that you can configure the integrated Web server (page 66).

**Note:** If the Optivity Quick2Config Server window displays messages about SYSLOG and TFTP conflicts, you can start the Quick2Config server with command line options that disable the SYSLOG and TFTP daemons. See "Using command line options" on page 76.

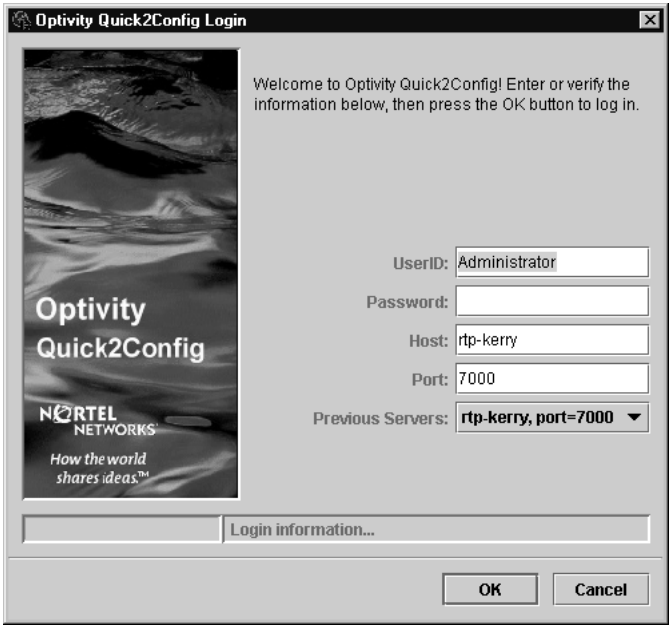
## Starting a Quick2Config client session

Although you can start a client session from a Web browser, for purposes of verifying the installation, use the following procedure to start the standalone client:

➨ From the Windows Start menu, choose Programs > Quick2Config 2.2 > Standalone Client.

After a few moments, the Optivity Quick2Config Login dialog box opens. (See Figure 6 on page 35.) The opening of this dialog box indicates that the Quick2Config software has been installed correctly and that the client software can connect to the Quick2Config server.

**Figure 6** Optivity Quick2Config Login dialog box




You are now ready to log in to the Quick2Config server and complete the setup tasks. See Chapter 5, “Setting up Quick2Config,” on page 61.

Or you can cancel the client session and install the Quick2Config standalone client on client computers, and then complete the setup tasks later. See Chapter 4, “Installing the Quick2Config standalone client,” on page 49.

# Removing the Quick2Config server software

When you install the Quick2Config server software, the installation program creates an uninstall program, which you can use to remove the Quick2Config files from your system.

To remove the Quick2Config server software from your system:

1. Stop the Quick2Config server if it is running.
2. From the Windows Start menu, choose Settings > Control Panel > Add/Remove Programs.

   The Add/Remove Programs Properties dialog box opens.
3. Select Optivity Quick2Config 2.2.
4. Click Add/Remove.

   The Uninstaller dialog box opens.
5. Click Uninstall.

   The uninstall program removes the Quick2Config server files from your system. The uninstall program does not remove the *<InstallDir>\database* directory. Nortel Networks recommends that you back up this directory so that it will be available when you reinstall Quick2Config.

# Chapter 3
# Installing Quick2Config on UNIX systems

This chapter describes how to install and uninstall the Optivity Quick2Config 2.2 software on UNIX systems.

Information in this chapter is organized as follows:


- "What the installation program does" on page 38
- "Gaining access to the installation files" on page 38
- "Running the installation program" on page 38
- "Verifying the installation" on page 41
- "Starting the Quick2Config server without a console window" on page 46
- "Removing the Quick2Config server software" on page 46


## Before you begin

Before you proceed with the installation process on HP-UX or AIX systems, verify that the appropriate JVM has been installed:

- For HP-UX systems, verify that HP-UX Java VM 1.1.8 is installed. If it is not, go to http://www.hp.com to download the Java Development Kit (JDK).
- For AIX systems, verify that AIX Java VM 1.1.8 is installed. If it is not, go to http://www.ibm.com to download the AIX JDK.

# What the installation program does

The installation program for Quick2Config installs the standalone and Web versions of the client software, as well as the Quick2Config server. In addition, the installation program does the following:

- Creates an uninstall program for the Quick2Config software.
- Creates the following symbolic links:
  - /usr/Quick2Config/server/bin -> <*InstallDir*>
  - /usr/Quick2Config/client/bin -> <*InstallDir*>

# Gaining access to the installation files

The Quick2Config software is shipped on a CD. You can install Quick2Config in one of the following ways:

- Locally from a CD-ROM drive
- Remotely from a network drive
- Remotely from a network location that contains the Quick2Config installation files.

**Note:** If necessary, review your operating system documentation or consult with your system administrator for help with mounting the CD drive or installing the software from a remote location.

# Running the installation program

To install the Quick2Config server and standalone client software:

1. Open a command window.
2. Log in as root by typing the following command:

   **su**
3. At the password prompt, type your root password.

4 Navigate to the Quick2Config installation files. For example, if the installation CD is mounted on the drive /cdrom, type the following command:

**`cd /cdrom/Install/<platform>`**

where *platform* is one of the following:

- **aix**
- **hpux/10.20**
- **hpux/11.0**
- **solaris**

5 Type the following command:

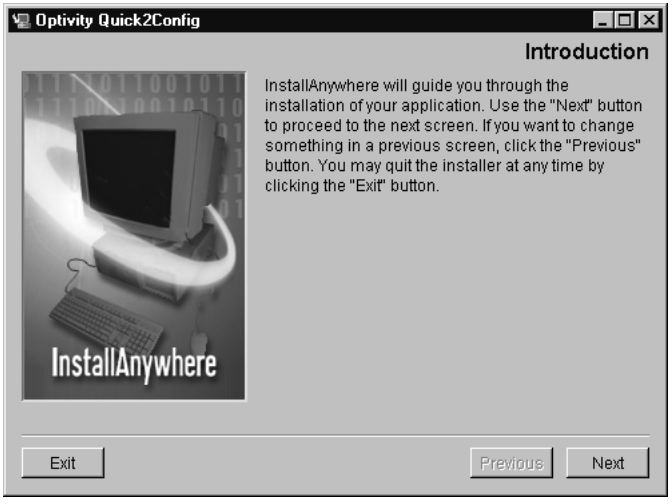
**`sh q2c.bin`**

A window opens, informing you that the installation program is being prepared.

**Note:** On AIX and HP-UX systems, a message box opens and displays the JREs on your system. Select the JRE that you want Quick2Config to use.

After several seconds, the Optivity Quick2Config splash window opens. Next, the InstallAnywhere wizard starts, and the Quick2Config installation program's Introduction dialog box opens (Figure 7).

**Figure 7** Optivity Quick2Config 2.2 Introduction dialog box


Optivity Quick2Config
Introduction
InstallAnywhere will guide you through the installation of your application. Use the "Next" button to proceed to the next screen. If you want to change something in a previous screen, click the "Previous" button. You may quit the installer at any time by clicking the "Exit" button.
InstallAnywhere
Exit
Previous
Next

**6** Click Next.

The Software License Agreement dialog box opens.

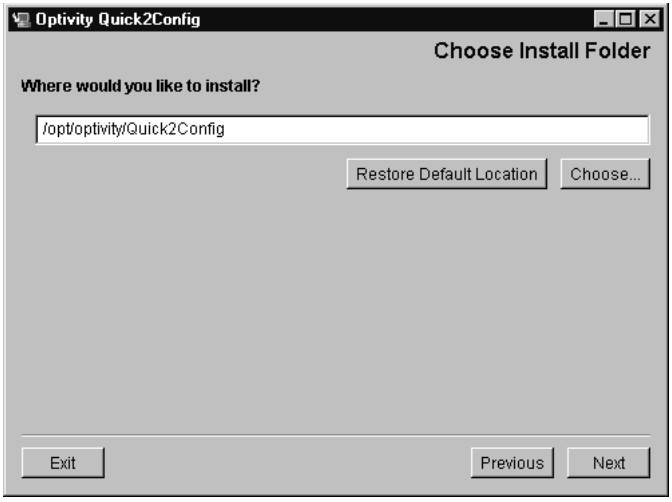
**7** Read the license agreement, and then do one of the following:

- If you agree with the terms of the license, click Yes, and then click Next. The Important Information dialog box opens.
- If you do not agree with the terms, click No to exit the installation program.

**8** Read the information in the Important Information dialog box, and then click Next.

The Choose Install Folder dialog box opens (Figure 8).

**Figure 8** Choose Install Folder dialog box




**9** Specify a location for the Quick2Config files.

You can install the Quick2Config files in any directory on a local disk. The default directory is /opt/optivity/Quick2Config.

If you are using Quick2Config with a third-party Web server instead of the integrated Web server, you must create a soft link to the Quick2Config installation directory. For example, create a Quick2Config directory in the Web server directory structure and link that directory to the Quick2Config installation directory.

**Caution:** Do not install the Quick2Config software directly into the Web server's document root directory. If you do, the existing index.html page will be overwritten. The document root directory is the directory from which a Web server serves HTML files to Web browsers.

**10** Click Install.

The installation program copies the files from the CD, and after a few moments, the Install Complete dialog box opens.

**11** Click Done.

This completes the installation process. Now you can verify the installation.

## Verifying the installation

To verify that the Quick2Config software has been installed correctly, do the following:

- Start the Quick2Config server.
- Start a Quick2Config client session.

# Starting the Quick2Config server

You can start the server from the local console (next) or from a remote console (page 43).

**Note:** By default, the script that starts Quick2Config requires the X Windows system to be running, and it assumes that you want the Quick2Config console window to open when the server starts. For information about starting the server without a console window, see "Starting the Quick2Config server without a console window" on page 46.

## Starting the server from the local console

To start the server from the local console:

1. Open a command window.
2. Log in as root.
3. Navigate to the location of the Quick2Config program files by typing the following command:

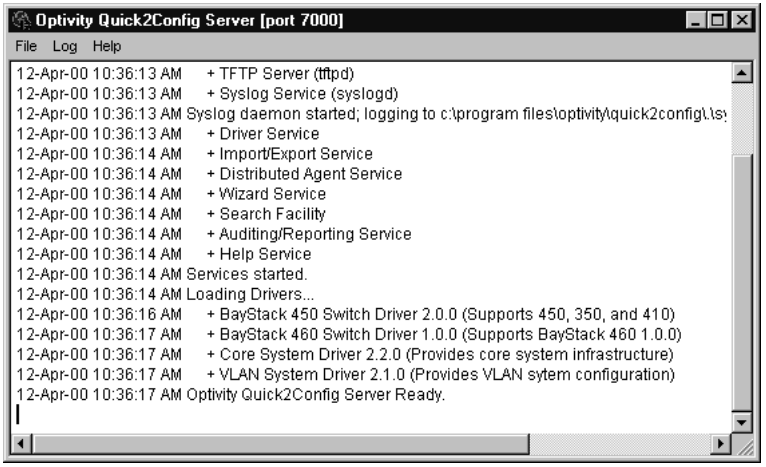
   ```
   cd /usr/Quick2Config/server/bin
   ```

4. Type the following command:

   ```
   ./server.sh
   ```

The Optivity Configuration Server window opens. This window displays information about the Quick2Config services and device drivers as they are loaded and started. The message "Optivity Quick2Config Server Ready" indicates that Quick2Config has been installed correctly and that clients can connect to the server (Figure 9).

**Figure 9** Optivity Quick2Config Server window


Optivity Quick2Config Server [port 7000]
File Log Help
12-Apr-00 10:36:13 AM + TFTP Server (tftpd)
12-Apr-00 10:36:13 AM + Syslog Service (syslogd)
12-Apr-00 10:36:13 AM Syslog daemon started; logging to c:\program files\optivity\quick2config\\s
12-Apr-00 10:36:13 AM + Driver Service
12-Apr-00 10:36:14 AM + Import/Export Service
12-Apr-00 10:36:14 AM + Distributed Agent Service
12-Apr-00 10:36:14 AM + Wizard Service
12-Apr-00 10:36:14 AM + Search Facility
12-Apr-00 10:36:14 AM + Auditing/Reporting Service
12-Apr-00 10:36:14 AM + Help Service
12-Apr-00 10:36:14 AM Services started.
12-Apr-00 10:36:14 AM Loading Drivers...
12-Apr-00 10:36:16 AM + BayStack 450 Switch Driver 2.0.0 (Supports 450, 350, and 410)
12-Apr-00 10:36:17 AM + BayStack 460 Switch Driver 1.0.0 (Supports BayStack 460 1.0.0)
12-Apr-00 10:36:17 AM + Core System Driver 2.2.0 (Provides core system infrastructure)
12-Apr-00 10:36:17 AM + VLAN System Driver 2.1.0 (Provides VLAN sytem configuration)
12-Apr-00 10:36:17 AM Optivity Quick2Config Server Ready.

## Starting the server from a remote console

To start the server from a remote console:

1. Open a command window and type the following command:

   **`xhost +<servername>`**

   where *`servername`* is the name (or the IP address) of the system on which the Quick2Config server is installed.

2. Telnet or rlogin to the system where the Quick2Config server is installed.

3 Set the display environment variable.

- If you are running the UNIX shell (sh) or the Korn shell (ksh), type the following commands:

  ```
  DISPLAY=localsystem:0.0
  export DISPLAY
  ```

  where *localsystem:0.0* is the local display.

- If you are running the C shell (csh), type the following commands:

  ```
  setenv DISPLAY=localsystem:0.0
  export DISPLAY
  ```

  where *localsystem:0.0* is the local display.

4 Navigate to the location of the Quick2Config program files by typing the following command:

```
cd /usr/Quick2Config/server/bin
```

5 Type the following command:

```
./server.sh
```

The Optivity Quick2Config Server window opens. This window displays information about the Quick2Config services and device drivers as they are loaded and started. The message "Optivity Quick2Config Server Ready" indicates that Quick2Config has been installed correctly and that clients can connect to the server. (See Figure 9 on page 43.)

## Starting the standalone client software

Although you can start a client session from a Web browser, for purposes of verifying the installation use the following procedure to start the standalone client:

1 Open a command window.

2 Navigate to the location of the Quick2Config program files by typing the following command:

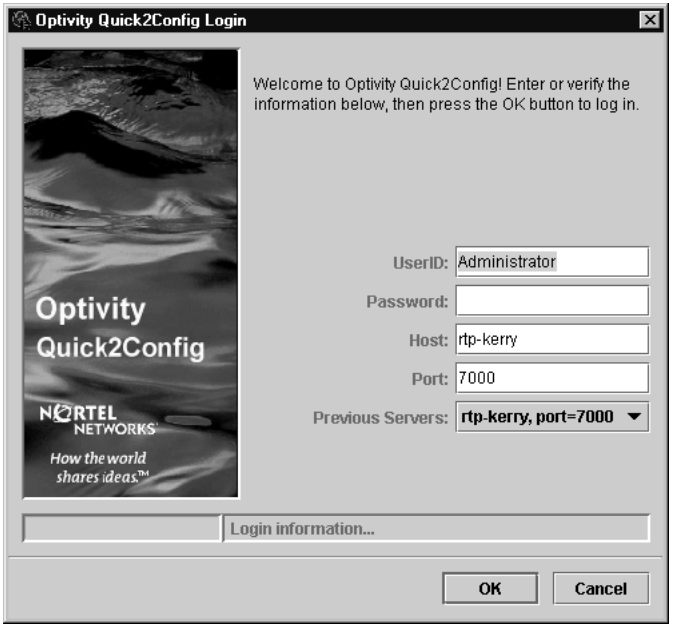
```
cd /usr/Quick2Config/client/bin
```

3 Type the following command:

```
./client.sh
```

After a few moments, the Optivity Quick2Config Login dialog box opens (Figure 10). The opening of this dialog box indicates that the Quick2Config client software has been installed correctly and that the client software can connect to the Quick2Config server.

**Figure 10** Optivity Quick2Config Login dialog box




You are now ready to log in to the Quick2Config server and complete the setup tasks. See Chapter 5, “Setting up Quick2Config,” on page 61.

Or you can cancel the client session and install the Quick2Config standalone client on client computers, and complete the setup tasks later. See Chapter 4, “Installing the Quick2Config standalone client,” on page 49.

# Starting the Quick2Config server without a console window

The script that starts the Quick2Config server on UNIX systems, server.lax, includes the **-console** option. This option requires that the X Window system is running, and it assumes that you want the Quick2Config console window to open when the server starts.

If you do not want the Quick2Config console window to be displayed, you can edit the server.lax script and remove the **-console** option from the server startup command line. You might choose to do this so that you can configure the system to start the Quick2Config server at boot time. For example, after you remove the **-console** option from the server startup command line in server.lax, add a statement similar to the following to the appropriate init file so that the Quick2Config server starts at boot time:

```
#!/sbin/sh
if  ( -f /usr/Quick2Config/server/bin/server.sh  );  then
         /usr/Quick2Config/server/bin/server.sh&
fi
exit 0
```

To stop the Quick2Config, use the **-stop** option.

# Removing the Quick2Config server software

In order to remove the Quick2Config server files from your system, you must run the uninstall script.

To run the uninstall script:

1. Log in as root.
2. Navigate to the location of the uninstall script by typing the following command:

   **cd <*InstallDir*>/uninstall**

   where *InstallDir* is the directory where you installed Quick2Config. The default installation directory is /opt/optivity/Quick2Config.

**3** Type the following command:

```
./uninstall
```

The Uninstaller dialog box opens.

**4** Click Uninstall.

The uninstall program removes the Quick2Config server files from your system. The uninstall program does not remove the Quick2Config database directory <*InstallDir*>/database. You might want to back up this directory so that it will be available when you reinstall Quick2Config.

# Chapter 4
# Installing the Quick2Config standalone client

This chapter describes how to install and uninstall the Optivity Quick2Config 2.2 standalone client software on Windows systems and on UNIX systems.

Information in this chapter is organized as follows:


- "Installing the standalone client software on a Windows system" (next)
- "Installing the standalone client software on UNIX systems" on page 54
- "Removing the Quick2Config standalone client software" on page 58


You do not need to install the client software on client computers because client computers can start a Quick2Config session through a Web browser. However, if the connection between the client computer and the server computer is slow (for example, a 28.8 Kb/s dial-up connection), you might want to install the Quick2Config standalone client software. Otherwise, Quick2Config users must wait for the client software to be downloaded to the client computer each time they start a Quick2Config session.

## Installing the standalone client software on a Windows system

The installation program for the Quick2Config standalone client does the following:

- Creates an installation folder if one does not already exist. The default installation folder is:
  C:\Program Files\Optivity\Quick2Config\StandaloneClient
- Creates an uninstall program for the Quick2Config client software.

- Creates a Quick2Config program group if one does not exist, and adds an icon for starting a Quick2Config client session.

## Running the installation program

The installation program for the Quick2Config standalone client displays a series of dialog boxes that guide you through the installation process. When you have completed a dialog box, click Next to continue with the installation. You can click a window's Previous button to move back through the dialog boxes, in order to review or change a setting. You can also click Exit at any time to end the installation program without installing the Quick2Config software.

To install the Quick2Config standalone client on a Windows system:

1. Log on to a Windows 95, Windows 98, or Windows NT system.
2. Close any Windows programs that are running.
3. Insert the Quick2Config CD into the CD-ROM drive.
4. From the Windows Start menu, choose Run.
5. In the Run window, type the following command:

   **<*drive*>:\install\win32\client.exe**

   A window opens, informing you that the installation program is being prepared. After several seconds, the Optivity Quick2Config splash window opens. Next, the InstallAnywhere wizard starts, and the Quick2Config installation program's Introduction dialog box opens (Figure 11).

**Figure 11** Optivity Quick2Config 2.2 Standalone Client Introduction dialog box

Optivity Quick2Config Standalone Client
Introduction
InstallAnywhere will guide you through the installation of your application. Use the "Next" button to proceed to the next screen. If you want to change something in a previous screen, click the "Previous" button. You may quit the installer at any time by clicking the "Exit" button.
InstallAnywhere
Exit
Previous
Next

**6** Click Next.

The Software License Agreement dialog box opens.

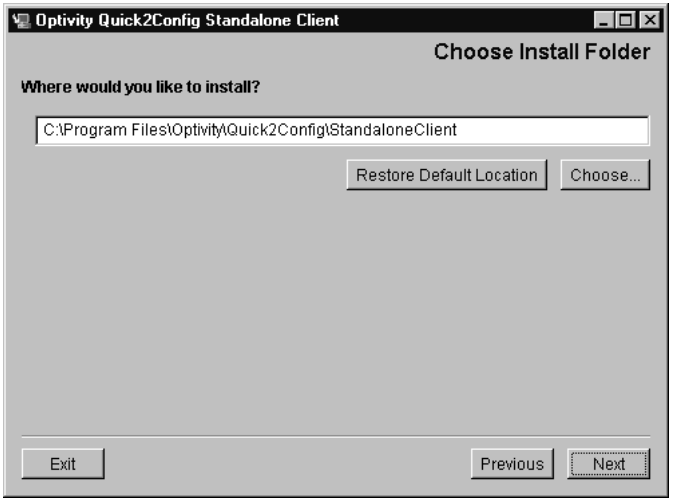
**7** Read the license agreement, and then do one of the following:

- If you agree with the terms of the license, click Yes, and then click Next. The Important Information dialog box opens.
- If you do not agree with the terms, click No to exit the installation program.

**8** Read the information in the Important Information dialog box, and then click Next.

The Choose Install Folder dialog box opens (Figure 12).

**Figure 12** Choose Install Folder dialog box




**9** Specify a location for the Quick2Config client files.

You can install the Quick2Config files in any directory on a local disk. The default directory is:
C:\Program Files\Optivity\Quick2Config\StandaloneClient

**10** Click Next.

The Choose Shortcut Location dialog box opens.

**11** Specify the folder where you want the Quick2Config program icons to be copied.

By default, the installation program copies the program icons into a folder called Quick2Config 2.2.

**12** Click Install.

The installation program copies the files from the CD, and after a few moments, the Install Complete dialog box opens.

**13** Click Done.

This completes the installation process. Now you can verify the installation.

## Verifying the client installation on Windows systems

To verify that the standalone client software has been installed correctly:

1. Start the Quick2Config server if it is not running.

   If the server is installed on a Windows system, see "Starting the Quick2Config server" on page 32.

   If the server is installed on a UNIX system, see "Starting the Quick2Config server" on page 42.

2. From the Windows start menu, choose Programs > Quick2Config 2.2 > Standalone Client.

   After a few seconds, the Optivity Quick2Config Login dialog box opens, indicating that the Quick2Config client software has been installed correctly.

The Optivity Quick2Config Login window displays the following information:

- The host name, which is the name of the computer that is running the Quick2Config server. Type the host name or the IP address of the system that is running the Quick2Config server.
- The default port for the Quick2Config server, which is 7000.
- The Previous Servers list, which contains the host names and ports of Quick2Config servers that the client computer has accessed. (The dialog box displays the host name and port number of the server that was last accessed by this client computer.) Because this is the first time that you have started a session, the list contains one entry—the name of the server where you installed the server and port 7000.

You are now ready to log in to the Quick2Config server. If you did not complete the setup tasks after you installed the server, you should complete them now.

# Installing the standalone client software on UNIX systems

The installation program for the Quick2Config standalone client does the following:

- Copies the Quick2Config program files from the CD to the installation directory.
- Creates the following symbolic link:

  /usr/Quick2Config/client/bin -> <*ClientInstallDir*>

## Gaining access to the installation files

You can install the standalone client software in any of the following ways:

- Locally from a CD-ROM drive
- Remotely from a network drive
- Remotely from a network location that contains the Quick2Config installation files

**Note:** If necessary, review your operating system documentation or consult with your system administrator for assistance mounting the CD drive or installing the software from a remote location.

## Running the installation program

To install the Quick2Config standalone client software:

1. Open a command window.
2. Log in as root by typing the following command:

   **su**
3. At the password prompt, type your root password.

**4** Navigate to the Quick2Config installation files. For example, if the installation CD is mounted on the drive /cdrom, type the following command:

**`cd /cdrom/Install/<platform>`**

where *platform* is one of the following:

- **aix**
- **hpux/10.20**
- **hpux/11.0**
- **solaris**

**5** Type the following command:

**`sh client.bin`**

A window opens, informing you that the installation program is being prepared.

**Note:** On AIX and HP-UX systems, a message box opens and displays the JREs on your system. Select the JRE that you want Quick2Config to use.

After several seconds, the Optivity Quick2Config splash window opens. Next, the InstallAnywhere wizard starts, and the Quick2Config installation program's Introduction dialog box opens (Figure 13).

**Figure 13** Optivity Quick2Config 2.2 Standalone Client Introduction dialog box

Optivity Quick2Config Standalone Client
Introduction
InstallAnywhere will guide you through the installation of your application. Use the "Next" button to proceed to the next screen. If you want to change something in a previous screen, click the "Previous" button. You may quit the installer at any time by clicking the "Exit" button.
InstallAnywhere
Exit
Previous
Next

**6** Click Next.

The Software License Agreement dialog box opens.

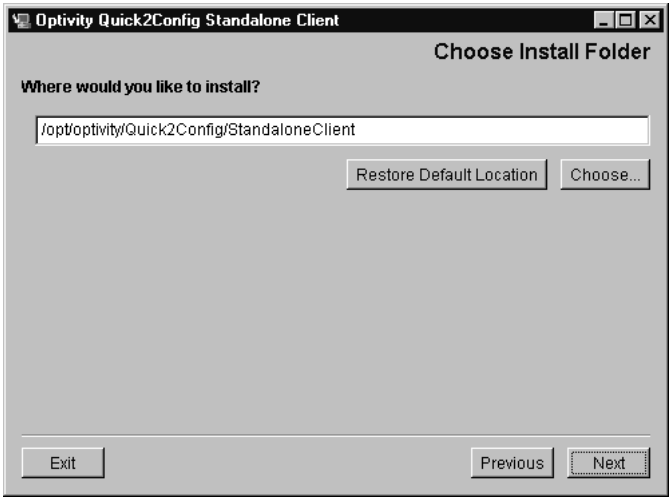
**7** Read the agreement, and then do one of the following:

- If you agree with the terms of the license, click Yes, and then click Next. The Important Information dialog box opens.
- If you do not agree with the terms, click No to exit the installation program.

**8** Read the information in the Important Information dialog box, and then click Next.

The Choose Install Folder dialog box opens (Figure 14).

**Figure 14** Choose Install Folder dialog box




**9** Specify a location for the Quick2Config client files.

You can install the Quick2Config files in any directory on a local disk. The default directory is /opt/optivity/Quick2Config/StandaloneClient.

**10** Click Install.

The installation program copies the files from the CD, and after a few moments, the Install Complete dialog box opens.

**11** Click Done.

This completes the installation process. Now you can verify the installation.

## Verifying the client installation on UNIX systems

To verify that the standalone client software has been installed correctly:

1. Start the Quick2Config server if it is not running.

   If the server is installed on a Windows system, see "Starting the Quick2Config server" on page 32.

   If the server is installed on a UNIX system, see "Starting the Quick2Config server" on page 42.

2. Open a command window, and navigate to the location of the Quick2Config program files by typing the following command:

   ```
   cd /usr/Quick2Config/client/bin
   ```

3. Type the following command:

   ```
   ./client.sh
   ```

   After a few moments, the Optivity Quick2Config Login dialog box opens, indicating that the Quick2Config client software has been installed correctly.

The Optivity Quick2Config Login dialog box displays the following information:

- The host name, which is the name of the computer that is running the Quick2Config server. Type the host name or the IP address of the system that is running the Quick2Config server.
- The default port for the Quick2Config server, which is 7000.
- The Previous Servers list, which contains the host names and ports of Quick2Config servers that the client computer has accessed. (The dialog box displays the host name and port number of the server that was last accessed by this client computer.) Because this is the first time that you have started a session, the list contains one entry—the name of the server where you installed the server and port 7000.

You are now ready to log in to the Quick2Config server. If you did not complete the setup tasks after you installed the server, you should complete them now. See Chapter 5, "Setting up Quick2Config," on page 61.

# Removing the Quick2Config standalone client software

When you install the Quick2Config standalone client software, the installation program creates an uninstall program, which you can use to remove the Quick2Config files from your system.

## Removing the Quick2Config standalone client from Windows systems

To remove the Quick2Config standalone client from a Windows system:

1. From the Windows Start menu, choose Settings > Control Panel > Add/Remove Programs.

   The Add/Remove Programs Properties dialog box opens.

2. Select Optivity Quick2Config 2.2 Standalone Client.
3. Click Add/Remove.

   The Uninstaller dialog box opens.

4. Click Uninstall.

   The uninstall program removes the Quick2Config client files from your system.

## Removing the Quick2Config standalone client from UNIX systems

When you install the Quick2Config server software, the installation program creates an uninstall program, which you can use to remove the Quick2Config files from your system.

To run the uninstall program:

1. Log in as root.
2. Navigate to the location of the uninstall script by typing the following command:

   **cd <*ClientInstallDir*>/uninstall**

where *`ClientInstallDir`* is the directory where you installed the Quick2Config client. The default installation directory is /opt/optivity/ncs/Quick2Config/StandaloneClient.

**3** Type the following command:

**`./uninstall`**

The Uninstaller dialog box opens.

**4** Click Uninstall.

The uninstall program removes the Quick2Config client files from your system.

# Chapter 5
# Setting up Quick2Config

This chapter describes the tasks that you need to perform after you have installed the Quick2Config software.

Information in this chapter is organized as follows:


- "Setup tasks overview" on page 62
- "Assigning the Administrator password" on page 63
- "Configuring the Web server" on page 66
- "Configuring the TFTP server" on page 68
- "Configuring the SYSLOG server" on page 71
- "Enabling remote client software setup" on page 72
- "Setting up sample configuration files" on page 73

# Setup tasks overview

After you have installed the Quick2Config server, you need to perform one or more setup tasks. Table 7 lists the tasks and the conditions under which you need to perform them.

**Table 7** Setup tasks

| If you... | Perform this setup task... |
|---|---|
| Installed the Quick2Config server and verified its installation | Change the password for the Quick2Config administrator. See "Assigning the Administrator password" on page 63. |
| Have multiple Web servers on your computer and are using the Web server integrated with Quick2Config | Configure the Web server. See "Configuring the Web server" on page 66. |
| Installed the Quick2Config server on a system that is running a TFTP daemon | Configure the TFTP server. See "Configuring the TFTP server" on page 68. |
| Installed the Quick2Config server on a system that is running a SYSLOG daemon | Configure the SYSLOG server. See "Configuring the SYSLOG server" on page 71. |
| Want Quick2Config users to be able to download the standalone client software | Copy the standalone client files to the downloads directory. See "Enabling remote client software setup" on page 72. |
| Want Quick2Config users to be able to gain access to the demonstration files | Copy the demonstration configuration files to the TFTP server. See "Setting up sample configuration files" on page 73. |

# Assigning the Administrator password

When you install the Quick2Config server, the installation program creates one Quick2Config user account called Administrator. This is the account that you **must** use to administer the Quick2Config server; it is the only account from which you can create Quick2Config user groups and user accounts, retain control over access permissions, and override locks on configuration data.

When the installation program creates the Administrator account, it does not assign a password to the account. Therefore, the first thing that you should do after installing the software is to assign a password to the Administrator account.

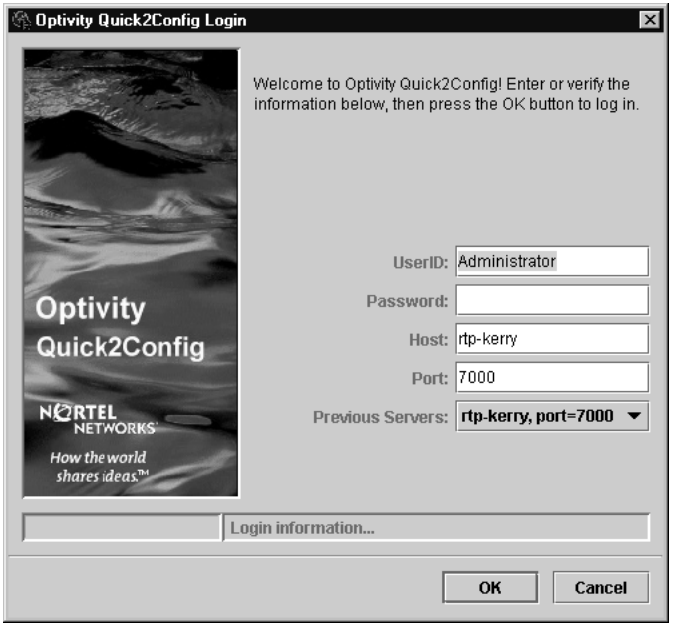
**Note:** Passwords are case sensitive; they can contain any number and any combination of characters, including spaces.

To assign a password to the Administrator account:

1. Start the Quick2Config server if it is not already running.
   - If you are running the server on a Windows system, see "Starting the Quick2Config server" on page 32.
   - If you are running the server on a UNIX system, see "Starting the Quick2Config server" on page 42.
2. Start a Quick2Config client session.
   - To start the client on a Windows system:
     From the Windows start menu, choose Programs > Quick2Config 2.2 > Standalone Client.
   - To start the client on a UNIX system:
     In a command window, type the following command:
     **`/usr/Quick2Config/client/bin/client.sh`**

   After a few moments, the Optivity Quick2Config Login dialog box opens (Figure 15).

**Figure 15** Optivity Quick2Config Login dialog box

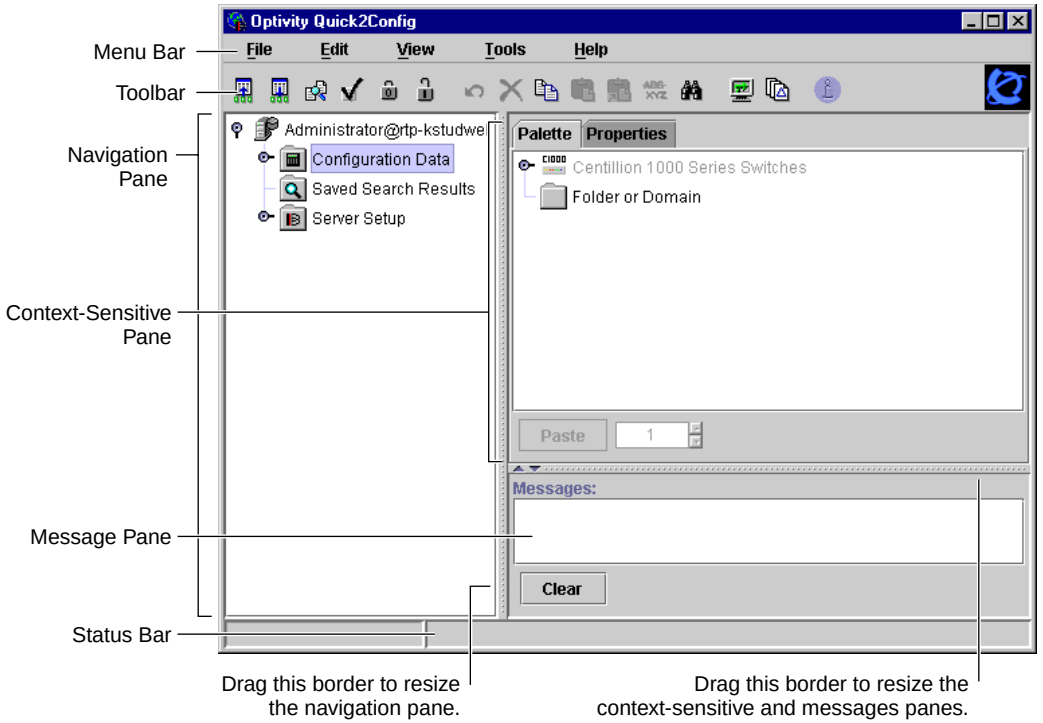



3 Verify that the User ID field reads Administrator and that the Password field is empty.

4 Click OK.

After several seconds, the Optivity Quick2Config main window opens (Figure 16).

**Figure 16** Optivity Quick2Config main window

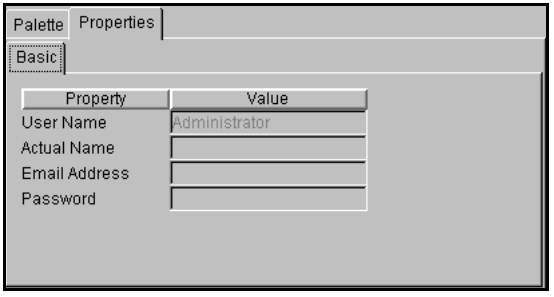



5 In the navigation pane, choose Server Setup > User Groups > Administrators > Administrator.

6 In the context-sensitive pane, click the Properties tab.

The Basic tab displays the properties for the Administrator account (Figure 17).

**Figure 17** Properties tab—Basic tab for Administrator account



7 Complete the fields in the Basic tab as follows:

- In the Actual Name field, type your name.
- In the Email Address field, type your e-mail address.
- In the Password field, type a password.

  As you type, asterisks represent the characters; you do not see the password.

8 Press [Enter] or [Tab].

  Quick2Config pads the password field with additional asterisks and displays the Confirm password field.

9 In the Confirm password field, type your password.

Quick2Config assigns the new password to the Administrator account. You can continue with the client session; however, the next time that you log in with the Administrator ID, you must type the new password.

**Note:** Quick2Config does not provide a mechanism for resetting passwords. Therefore, if you forget the password for the Administrator account, you must remove a set of files. For more information, see Appendix B, “Resetting the Administrator password,” on page 93.

# Configuring the Web server

By default, the integrated Web server is configured to run on port 80. You must reconfigure the Web server:

- If you have installed Quick2Config on a system on which a third-party Web server is running

  *and*

- Quick2Config clients will connect to Quick2Config with the integrated Web server.

You specify the port for the integrated Web server in the Web server Properties tab. Alternatively, you can start the Quick2Config server with the command line option **`-httpport`**. (See “Using command line options” on page 76.)

To specify the port for the integrated Web server:

1 Start the Quick2Config server.

**Note:** If the third-party Web server is set to run on the default port (port 80), the integrated Web server will not start and you will not be able to view the Quick2Config Help system.

2 Start a Quick2Config client session.

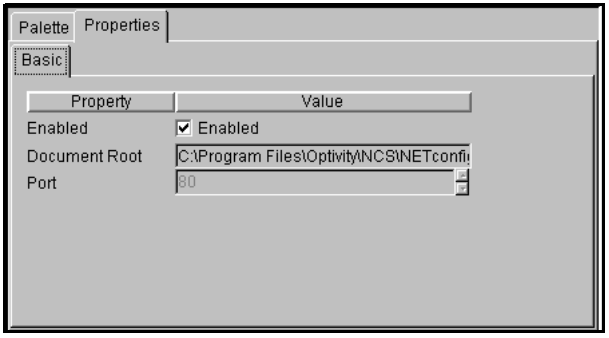
3 Log in as the Administrator.

4 In the navigation pane, choose Server Setup > Web Server.

5 In the context-sensitive pane, click the Properties tab.

The Basic tab displays the properties for the Web server (Figure 18).

**Figure 18** Properties tab—Basic tab for Web server




6 Clear the Enabled check box to disable the Web server.

7 In the Port field, type or select a port for the Web server.

The standard Web server port is 80. If a third-party Web server is running on port 80, pick another port, such as 8080.

**Note:** If you specify a port other than 80, Quick2Config users must specify that port in the URL when they connect to the server. For example, if you specify port 8080, the URL to connect to the Quick2Config server is http://servername:8080/index.html.

8 Restart the Quick2Config server.

# Configuring the TFTP server

The Quick2Config server includes a TFTP server that Quick2Config users can use to import and export device configurations. By default, the integrated TFTP server starts on port 69 when you start the Quick2Config server. Table 8 lists the default TFTP directory for Windows and UNIX operating systems.

**Table 8** Default location of TFTP server directory

| Operating system | Default TFTP directory |
|---|---|
| Windows | <*InstallDir*>\database\tftp |
| UNIX | /tftpboot |

If a TFTP server is running when you start the Quick2Config server, the integrated TFTP server is disabled. To use the TFTP server that is already running, you need to specify its location.

To specify the directory location of the TFTP server:

1 Start a Quick2Config client session.

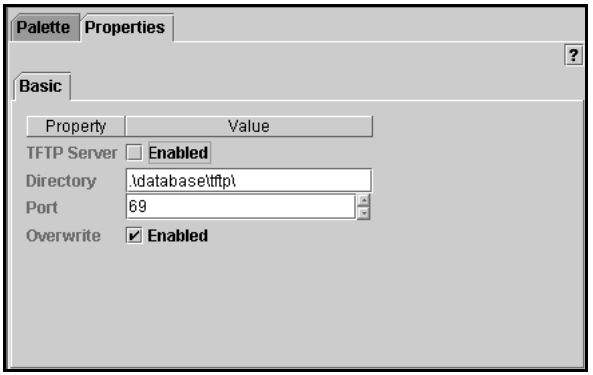
2 Log in as Administrator.

3 In the navigation pane, choose Server Setup > TFTP Server.

4 In the context-sensitive pane, click the Properties tab.

The Basic tab displays the properties for the TFTP server (Figure 19).

**Figure 19** Properties tab—Basic tab for TFTP server




5 In the Directory field, type the directory location of the running TFTP server.

6 Make sure that the port is 69.

**Note:** Most devices that support TFTP require that the TFTP port be set to 69; therefore, Nortel Networks recommends that you do not change the port number for the TFTP server.

On Windows systems, the Quick2Config server saves the TFTP directory location information. However, on UNIX systems, this information is reset—as specified in the Quick2Config server startup script—each time you start the Quick2Config server. You should edit this script if the directory location of the TFTP server is other than the default (/tftpboot). See "Editing the server startup script to use a different TFTP directory" on page 70.

## Determining whether a TFTP server is running

On UNIX systems, you can determine whether your system is currently running a TFTP server (and its directory location) as follows:

1. Open a command window.
2. Open the /etc/inetd.conf file.
3. Look for a line that starts with `tftp` or `#tftp`, similar to the following:

   ```
   tftp  dgram  udp  wait  root  /usr/bin/tftpd  /tftphome
   ```

If the line starts with the comment symbol (#), the TFTP server is not running. Note the last item on the line; this is typically the TFTP server directory. In the example, the TFTP server directory is /tftphome. This is the directory that you must specify in the TFTP Basic Properties tab. Alternatively, you can edit the Quick2Config startup script (next).

## Editing the server startup script to use a different TFTP directory

If the TFTP directory you are using is not /tftpboot (regardless of the TFTP server you are using), edit the Quick2Config startup script as follows:

1. Open a command window.
2. Log in as root.
3. Start an editing session.
4. Open the /usr/Quick2Config/server/bin/server.sh file.
5. Navigate to the line that begins as follows:

   ```
   java/jre/bin/jre $NO_JIT
   ```

6. Locate the command line option:

   ```
   -tftpdir /tftpboot
   ```

7. Edit the directory name.
8. Save the file.

# Configuring the SYSLOG server

The Quick2Config server includes a SYSLOG server, which records messages sent from devices within the network. The SYSLOG server starts on port 514 when you start the Quick2Config server. However, if another SYSLOG server is already running on your system, the Quick2Config SYSLOG server does not start and you cannot view the contents of the SYSLOG file from within the Quick2Config environment.

If you want to view SYSLOG messages from within the Quick2Config environment, you must edit the current SYSLOG server's syslog.conf file. On UNIX systems, the syslog.conf file is located in the /etc directory. On Windows systems, refer to the SYSLOG server documentation to detemine the location of the syslog.conf file.

Nortel Networks recommends that you edit the syslog.conf file only if you understand SYSLOG server functions and if you know the facility and level (or priority) of the SYSLOG messages sent from the network devices. After you have determined the facility and level values, edit the syslog.conf file and direct only those facility/level values that you want to view within Quick2Config to /usr/Quick2Config/server/bin/syslog.txt.

To view the contents of the /usr/Quick2Config/server/bin/syslog.txt file:

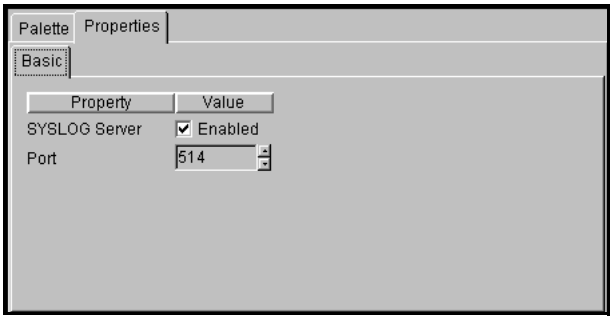
➨ Choose View > Syslog.

To disable (or enable) the SYSLOG server:

1. Start a Quick2Config client session.
2. Log in as Administrator.
3. In the navigation pane, choose Server Setup > SYSLOG Daemon.
4. In the context-sensitive pane, click the Properties tab.

   The Basic tab displays the properties for the SYSLOG server (Figure 20).

**Figure 20** Properties tab—Basic tab for SYSLOG server




**5** Clear (or check) the Enabled check box.

# Enabling remote client software setup

The login page for the Quick2Config Web client contains a link from which Quick2Config users can download the standalone client software. When users follow this link, their Web browser displays standalone.html, a Web page that contains links for downloading the installation files for each version of the standalone client software.

For the links to work, you must copy the standalone client installation files from the Quick2Config installation CD to the <*InstallDir*>/downloads directory.

## Copying the client installation files to a Windows system

To copy the standalone client installation files to a Windows system:

**1** Insert the Quick2Config installation CD into the CD drive.

**2** Navigate to the directory <*drive*>:\Downloads, where *drive* is the CD drive.

**3** Copy the contents of the directory to <*InstallDir*>\Downloads.

### Copying the client installation files to a UNIX system

To copy the standalone client installation files to a UNIX system:

1. Mount the CD drive.
2. Insert the installation CD into the CD drive.
3. Open a command window.
4. Create a directory for the files by typing the command:

   **`mkdir /usr/Quick2Config/server/bin/Downloads`**
5. Change to the location of the Quick2Config standalone client installation files.

   For example, if the installation CD is mounted on the drive /cdrom, type the following command:

   **`cd /cdrom/Downloads`**
6. Type the command:

   **`cp -R * /usr/Quick2Config/server/bin/Downloads`**

The files are copied from the CD to the Downloads directory.

## Setting up sample configuration files

Some versions of Quick2Config include sample configuration files. For these versions, the sample configuration files are copied to the demodata directory when you install the Quick2Config server. You must copy these files to the TFTP server directory before you (or other users) can import the files into the Quick2Config database.

### Copying the configuration files on Windows systems

To copy the configuration files on Windows systems:

1. Open Windows Explorer and navigate to the <*InstallDir*>\demodata directory.

2 Copy the contents of this directory to the <*InstallDir*>\database\tftp directory.

**Note:** The tftp directory is created the first time that you start the Quick2Config server. If you have not started the Quick2Config server, you can create the directory <*InstallDir*>\database\tftp manually.

## Copying the configuration files on a UNIX system

To copy the configuration files on a UNIX system:

1 Open a command window.

2 Change to the location of the Quick2Config configuration files by typing the following command:

```
cd /usr/Quick2Config/server/bin/demodata
```

3 Copy the files to the TFTP directory.

For example, if the TFTP directory is /tftpboot, type the following command:

```
cp * /tftpboot
```

# Chapter 6
# Administering the Quick2Config server

This chapter identifies key administrative tasks and provides recommendations for setting up user accounts, access permissions, and notifications.

Information in this chapter is organized as follows:


- "Viewing server events" (next)
- "Using command line options" on page 76
- "Generating a debug report" on page 79


## Viewing server events

The Quick2Config server records messages about its operation in an event log file. You can view the Quick2Config server's event log, and you can also specify the type of information that you want to view.

To view the Quick2Config server event log:

➨ Open the Optivity Quick2Config Server window.

Table 9 lists the type of information that you can choose to display in the Optivity Quick2Config Server window.

**Table 9** Server information types for the event log

| Types | Description |
|---|---|
| None | No messages appear. |
| Severe | Only messages about severe errors appear. |
| Error | Messages about errors and severe errors appear. |

**Table 9** Server information types for the event log (continued)

| Types | Description |
|---|---|
| Warning | Messages about warnings, errors, and severe errors appear. |
| Informative | Informative messages, warnings, and all errors appear. This is the default setting. |

To change the type of information that the Optivity Quick2Config Server window displays:

1. Open the Optivity Quick2Config Server window.
2. Choose Log > Filter.

   The menu displays the filters that can be applied to messages generated by the server.
3. Click the type of messages that you want the server window to display.

# Using command line options

On both Windows systems and UNIX systems, you can customize the behavior of the Quick2Config server by using command line options. For example, if your system is already running a SYSLOG daemon, you can start the Quick2Config server on a Windows system without its SYSLOG daemon by typing the command:

```
server.exe -syslogd off
```

Table 10 lists the command line options in alphabetical order.

**Table 10** Server command line options

| Option | Description |
|---|---|
| -cache *size* | Specifies the size of the server cache (in number of objects). Larger values improve server performance but use more memory.<br>Default: 1024 |
| -cli | Causes the server to run in command mode. |

**Table 10** Server command line options (continued)

| Option | Description |
|---|---|
| -console | Displays the log console when the server starts. By default, the console is displayed. |
| -database *path* | Specifies the root location of the Quick2Config database.<br>Windows default: <*InstallDir*>\Quick2Config<br>UNIX default: /usr/Quick2Config/server/bin |
| -debug_report | Starts the Quick2Config Debug wizard. |
| -docroot *path* | Specifies the document root for the Web server. Necessary only if you are using a third-party Web server. |
| -forcetftpdir *path* | Specifies the path to the TFTP directory. |
| -h, -?, -help | Displays the help information for the Quick2Config server options. |
| -httpd on \| off | Specifies whether the integrated Web server should be enabled on startup. Default: on |
| -httpport *portnumber* | Specifies the TCP port to use for Web traffic. Valid if the integrated Web server is enabled; that is, -httpd on.<br>Default: 80 |
| -interpret *script* | Causes the server to run the specified script file. The server subsequently exits. |
| -logfile *filename* | Specifies the name of the log file to which log data is written. The name can be an absolute or relative file name.<br>Default: srvlog.txt |
| -logging 0 \| 1 \| 2 \| 3 \| 4 | Controls the amount of log information that is displayed. A value of 0 causes no logging to be displayed. A value of 4 causes severe, error, warning, and informational messages to be logged.<br>Default: 4 |
| -port *portnumber* | Specifies the TCP port on which the Quick2Config client and Quick2Config server communicate.<br>Default: 7000 |
| -proxy *portnumber* | Specifies the TCP port on which the server's proxy socket server runs. This proxy socket is used for tunneling TELNET sessions from the client to various hosts.<br>Default: 5000 |
| -registry *path* | Specifies the path to the server's registry. |
| -shell | Runs the server in shell mode. |
| -stop | Stops the server. Use this flag to stop the server when it has been started without the console. |

**Table 10** Server command line options (continued)

| Option | Description |
|---|---|
| -syslogd on \| off | Specifies whether to enable the built-in SYSLOG daemon on startup.<br>Default: on |
| -tftpd on \| off | Specifies whether to enable the built-in TFTP server at startup.<br>Default: on |
| -tftpdir *path* | Specifies the default path to the TFTP directory. This option is effective only if the TFTP path has not been previously set. If the path has been set, use the -forcetftpdir option. |
| -timestamp on \| off | Specifies whether to prefix log file entries with a timestamp.<br>Default: on |

To use command line options on Windows systems:

1. Open a command window.
2. Navigate to the NETconfigurator installation directory.
3. Type the command

   **`server.exe <option1, option2, ...>`**

   where *`option1`*, *`option2`*, ... are the options listed in Table 10.

To use command line options on UNIX systems, you can do one of the following:

- Edit the server startup script /usr/NETconfigurator/server/bin/server.sh.
- Specify the options when you issue the `server` command on the command line.

# Generating a debug report

Quick2Config includes a Debug Wizard, which you can use to write bug reports. You can send these bug reports to Nortel Networks support engineers.

To generate a debug report on Windows systems:

1. At a command line prompt, navigate to the Quick2Config installation directory.
2. Type the following command:

   **`server -debug_report`**

   The Debug Package Wizard opens.
3. Complete the information as requested by the Debug Wizard.
4. E-mail the resulting file to the person who requested the debug report.

To generate a debug report on UNIX systems:

1. At a command line prompt, navigate to the Quick2Config installation directory.
2. Type the following command:

   **`sh server.sh -debug_report`**

   The Debug Package Wizard opens.
3. Complete the information as requested by the Debug Wizard.
4. E-mail the resulting file to the person who requested the debug report.

# Chapter 7
# Administering user groups and user accounts

As the Quick2Config administrator, you are responsible for creating accounts for network engineers (users) who are authorized to configure network devices. You can create user groups as well as user accounts. This means that you can collect users who perform similar functions (and probably need access to the same set of items) together in one group and assign access permissions to the group instead of to each individual user account.

This chapter identifies key administrative tasks and provides recommendations for setting up user groups and user accounts.

Information in this chapter is organized as follows:


- "Creating user groups" (next)
- "Creating user accounts" on page 84
- "Setting access permissions on user accounts" on page 86


## Creating user groups

To create a user group in Quick2Config, you need to do the following:

1. Add the user group to the Quick2Config database.
2. Rename the user group.

These procedures are described in the following sections.

## Adding a user group

To add a new user group to the Quick2Config server:

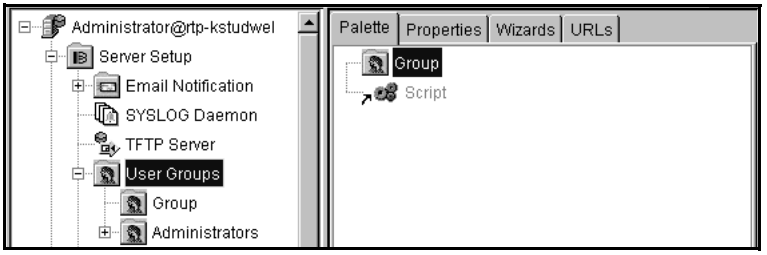
1. Start a Quick2Config client session as Administrator.
2. In the navigation pane, choose Server Setup > User Groups.
3. In the context-sensitive pane, click the Palette tab.
4. Add a new group to the User Groups. You can do this in one of three ways:
   - Double-click the Group icon in the Palette.
   - Drag the Group icon from the Palette to the User Groups icon in the hierarchy.
   - Click the Group icon in the Palette, then click the Paste button.

**Note:** Although you can choose the method you are most comfortable using for future tasks, the majority of the procedures discussed in this guide use the double-click method.

5. If you did not expand the User Groups item before, expand it now.

   In the navigation pane, you see a new user group, named *Group*. (See Figure 21.) See the next section for information about how to rename a user group.

**Figure 21** Expanded User Groups item



## Renaming a user group

Quick2Config assigns the name *Group* to each new user group that you create. You will probably want to rename groups to reflect the nature of the group. For example, if you have two levels of network engineers, you might want to create two groups and call one “Level 1” and the other “Level 2.”

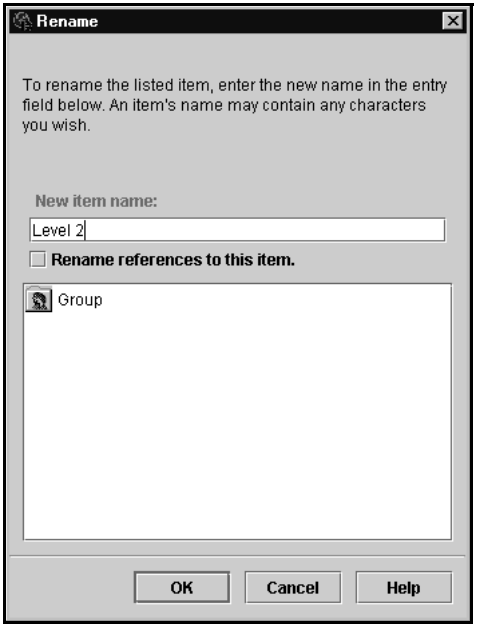
To rename a user group:

1. In the navigation pane, right-click the user group item that you want to rename.
2. From the pop-up menu, choose Rename.

   The Rename dialog box opens.
3. In the Rename dialog box, type a name for the group.

   Figure 22 shows an example of renaming a user group to Level 2.

**Figure 22** Renamed user group


Rename
To rename the listed item, enter the new name in the entry field below. An item's name may contain any characters you wish.
New item name:
Level 2
Rename references to this item.
Group
OK
Cancel
Help

4. Click OK.

# Creating user accounts

To create a user account in Quick2Config, you need to do the following:

1. Add the user account to the Quick2Config database.
2. Rename the user account.
3. Set the account properties—for example, password and e-mail address.
4. Set the account permissions.

Each of these procedures is described in the following sections.

## Adding a user account

To add a new user to a user group:

1. In the navigation pane, select the user group to which you want to add a user.
2. In the context-sensitive pane, click the Palette tab.
3. In the Palette tab, double-click User.
4. If you did not expand the user group item before, expand it now.

   In the navigation pane, you see a new user, named **User**.

See the next section for information about how to rename a user account, and see "Setting user account properties" on page 85 for information about setting the properties on a user account.

## Renaming a user account

Quick2Config assigns the name User to each user account that you create. Nortel Networks recommends that you rename the user accounts so that you can distinguish one account from another.

To rename a user account:

1. In the navigation pane, right-click the user account that you want to rename.
2. From the pop-up menu, choose Rename.

The Rename dialog box opens.

3 In the Rename dialog box, type a name for the user account.

4 Click OK.

In the navigation pane, the name of the user account changes immediately.

## Setting user account properties

User accounts have a basic set of properties, which includes:

- User name, which is the Quick2Config login name for the account
- Actual name, which is the name of the person assigned to the user account
- E-mail address
- Password

When you create a user account, Quick2Config assigns the name User to the user name property; all other properties are null.

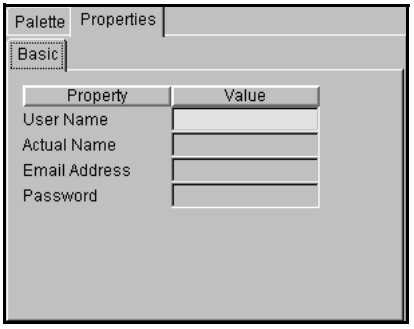
To set the properties for a user account:

1 In the navigation pane, click the user account for which you want to set the properties.

2 In the context-sensitive pane, click the Properties tab.

The Properties tab displays the basic user account properties (Figure 23).

**Figure 23** User account—Basic properties



3 Complete the fields in the Basic tab as follows:

- In the User Name field, type the user's login name.
- In the Actual Name field, type the user's name.
- In the Email Address field, type the user's e-mail address.
- In the Password field, type a password.

  As you type, asterisks represent the characters; you do not see the password.

4 Press [Enter] or [Tab].

  Quick2Config pads the password field with additional asterisks and displays the Confirm Password dialog box.

5 In the Confirm Password field, type the password.

  Remember, passwords can be any combination of characters, including spaces. Passwords are case sensitive.

## Setting access permissions on user accounts

Each item in the Quick2Config database has a set of access permissions associated with it. Access permissions are based on the assignment of two characteristics: access group and privilege. The **access groups,** which establish groupings of users, are owner, group, and everyone. By default, the **owner** of an item is the user who adds the item to the hierarchy. The **group** for an item is the user group (or groups) that have been given access to the item. The owner of the item grants access to user groups. **Everyone** includes the entire set of Quick2Config users.

When you add a new user account to the Quick2Config database, you become the owner of the user account and Quick2Config assigns the default access permissions to the item. Table 11 lists the default access permissions.

**Table 11** Default access permissions

| Access group | Privilege |
|---|---|
| Owner—Administrator | Read/Write |
| Group—Administrators | Read |
| Everyone | Read/Write |

You should change the permissions on new user accounts so that users can change their own passwords.

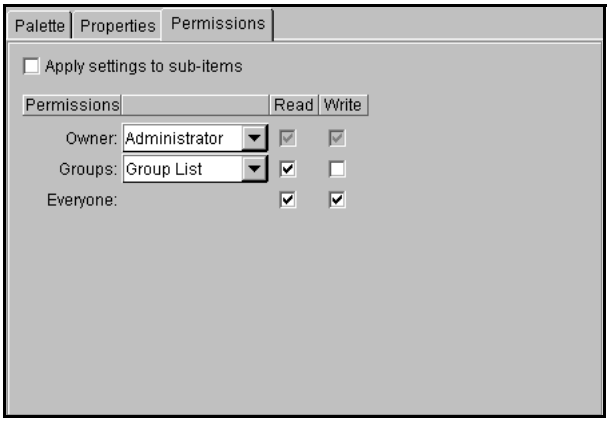
## Changing the account owner

To change the owner of a user account:

1. In the navigation pane, click the user.
2. In the context-sensitive pane, click the Permissions tab.

   If the Permissions tab is not available, choose View > Context Pane > Permissions. The Permissions tab opens (Figure 25).

**Figure 24** Permissions Tab




3. Click the scroll arrow in the Owner box.
4. Choose the new owner for the account.

**Note:** Because user accounts do not have subitems, you can disregard the "Apply settings to subitems" check box on the Permissions tab.

## Assigning a user account to user groups

Although you must create a new user account within a user group, Quick2Config does not automatically assign the new user account to the specified user group. Rather, you must use the Permissions tab to assign the user to the user group.

To assign a user to one or more user Groups:

1. In the navigation pane, right-click the user account that you want to assign to a group.
2. In the context-sensitive pane, click the Permissions tab.

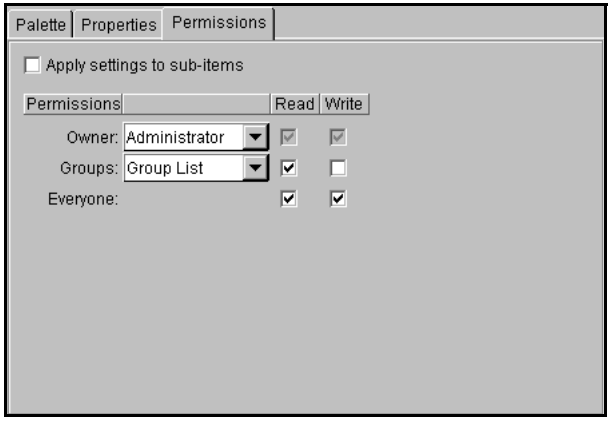
   If the Permissions tab is not available, choose View > Context Pane > Permissions.
3. Click the Group List arrow to display a list of user groups.
4. Select one or more groups from the group list.
5. Select or clear the Read and Write check boxes for the group.

To change the owner of a user account:

1. In the navigation pane, click the user.
2. In the context-sensitive pane, click the Permissions tab. If the Permissions tab is not available, choose View > Context Pane, and select Permissions.

   The Permissions tab opens (Figure 25).

**Figure 25** Permissions tab




3. Click the arrow in the Owner box to see a list of possible owners.
4. Choose the new owner for the account.

# Appendix A
# Recommended access permissions

Table 12 shows the recommended permissions to restrict access to administrator accounts. Nortel Networks recommends that you implement these access permissions; however, the requirements of your organization might necessitate that you establish a different set of access permissions.

**Table 12** Recommended access permissions

| Item | Owner | Owner | Group | Everyone |
|---|---|---|---|---|
| Server Setup | Admin | rw | r | r |
| User Groups | Admin | rw | r | r |
| Administrators (User Group) | Admin | rw | r | none |
| Administrator (User Account) | Admin | rw | r | none |
| New Groups | Admin | rw | r | r |
| New User Accounts | User | rw | r | r |

# Appendix B
# Resetting the Administrator password

Quick2Config does not provide an automated mechanism for resetting the password on the Administrator account; however, if you forget the password on the Administrator account, you can use the following procedure to reset it.

This procedure maintains device configuration information in the Quick2Config database; however, it removes all the Quick2Config server setup information (for example, Web server port, user groups, and user account information).

To reset the Administrator password:

1. As a precaution, make a copy of the Quick2Config\database directory (and its subdirectories).
2. Delete the NETconfigurator\database\admin directory.

**Note:** Deleting the NETconfigurator\database\admin directory removes all user group and user account information as well as other information you have specified in the Server Setup folder. In addition, removing the admin directory causes the ownership of all objects in the Quick2Config database to be changed to Administrator.

3. Start the Quick2Config server and client.
4. Verify that the User ID field in the Login dialog box reads “Administrator” and that the Password field is empty.
5. Change the password for the Administrator account.

   See “Assigning the Administrator password” on page 63.

6. If necessary, add user groups and user accounts, reset Web server and TFTP server ports, and change the ownership of database items.

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